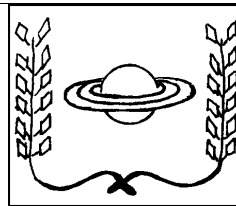


SPACE EXPLORER
INTEREST BADGE


Date Passed

Signed

1. Demonstrate a knowledge of the history and development of space exploration. _____ 1
2. Describe the purpose of two recent space probes and two recently launched satellites giving the main types of instruments used. _____ 2
3. Explain briefly how FIVE of the following problems (your own choice) are overcome in a manned spacecraft:
 - a) Radiation;
 - b) Meteoroids;
 - c) Weightlessness;
 - d) Diet;
 - e) Sanitation;
 - f) Clothing;
 - g) Acceleration;
 - h) Deceleration;
 - i) Re-entry;
 - j) Breathing and communication.
 _____ 3
4. Show that you have a knowledge of the following:
 - a) Reason for weightlessness in orbit or trajectory
 - b) The thrust obtained by rockets
 - c) Something of the part played by South Africa in space projects
 - d) The stage of acceleration and separation for a satellite to go into orbit round the earth; and re-entry problems
 - e) The fuel system used in space rockets
 - f) The control of a satellite
 - g) A particular current space programme and its purpose
 _____ 4
5. Demonstrate your knowledge of the scale of the Solar system by preparing a model showing the relative positions of the planets and their main satellites. _____ 5
6. Build a model of a space shuttle or capsule and rocket. _____ 6